



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
**University Village, 91 Cadastral Zone, Nnamdi Azikwe Expressway, Jabi, Abuja**  
**FACULTY OF SCIENCES**  
**COMPUTER SCIENCE DEPARTMENT**  
**2022\_2 EXAMINATIONS**

**COURSE CODE:** CIT742

**COURSE TITLE:** Multimedia Technology

**CREDIT:** 3 Units

**TIME ALLOWED:** 2½ Hours

**INSTRUCTION:** Answer Question 1 and any other THREE (3) questions

- 1a) What is multimedia application? Give six examples of multimedia application. **(5 marks)**
- b) State the relationship between Hypermedia and multimedia applications. **(1 mark)**
- c) Enumerate the four important characteristics of a multimedia system. **(4 marks)**
- d) What is the significance of authoring system in the development of an interactive multimedia project. **(3 marks)**
- e) Multimedia systems require output devices. Identify the output devices for a basic multimedia system. **(2 marks)**
- f) Enumerate the major guidelines for the use of colour in multimedia. **(4 marks)**
- g) In image processing context, discuss *histogram* **(4 marks)**
- h) What are the issues to be addressed in a multimedia system component integration. **(2 marks)**
- 2a) In multimedia context, what do you understand by authoring paradigm? **(1½ marks)**
- b) Write short notes on any three authoring paradigms **(13½ marks)**
- 3a) Itemise the key issues that affect storage media. **(2½ marks)**
- b) Briefly describe the four factors that influence I/O performance. **(12½ marks)**
- 4) Write short notes on the following concepts:
- a) Texts and Static Data **(3 marks)**
  - b) Graphics **(4 marks)**
  - c) Images **(5 marks)**
  - d) Video **(3 marks)**
- 5a) Extensively discuss DVD. **(10 marks)**
- b) In the context of system independent image format, what is TIFF? **(5 marks)**
- 6a) Discuss multimedia compression. **(6 marks)**
- b) Write short notes on Redundant Array of Inexpensive Disks (RAID) **(9 marks)**